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report on technology developments in Europe Military Applications Summary Bulk and the Middle East. The material contained in the Bulletins should in no way be construed as an endorsement of any product or service described therein.



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NIGHT OBSERVATION DEVICE

Background: Hall & Watts Defense Optics Limited of the United Kingdom has developed the W401 Night Observation Device for long-range battlefield and internal security surveillance. It is shown in Figure 1 mounted on a pan and tilt dividing head and low-level tripod but is adaptable to fit a variety of angulation heads and tripod systems.



Figure 1. The W401 Night Observation Device.

Description: Attributes of the W401 are as follows:

- Is one of the lightest devices of its type on the world market.
- Uses 25-mm second-generation image intensifier tube.
- Capable of long-range night surveillance use.
- In clear starlight and with x7 magnification, permits observation of men and vehicles at a range of up to 7 miles (11.2 km).
- With 40-percent contrast in clear starlight visible.

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- Normal viewing enables detection and location of static or moving targets up to 2000 m and recognition and identification of targets within a range of 1500 m.
- When mounted on a pan and tilt dividing head, bearings to targets can be obtained.
- The pan and tilt dividing head may in turn be mounted either on a low-level tripod in a ground role or on any suitable vehicle interface.

Specifications:

Night Observation Device	
Magnification x7	
Field of View 138 mils (7.8°)	
Focus Range 20 meters to infinity	
Graticule . , Available if required	
Image Intensifier Tube 25 mm second generation	
Power Supply	cell
Length 42 cm	
Overall Diameter 24 cm	
Weight 8.5 kg	
Battery Life (continuous use) 18 hrs	
Quality Assurance NATO Defense Standard AQAP 4	
Pan and Tilt Dividing Head	
Graduations , 20 mils	
Numbered , Every 100 mils	
Accuracy , , + /- 5 mils	
Height , , 140 mm	
Diameter . , 140 mm	
Weight . , , 1.8 kg	

Weight . , , 1.6 kg ONREUR point of contact: CDR D.R. Sadowski, USN, Acro-X

space Systems Officer. **Distribution** Standard Diver Sciad Shore Ordnance

Length (triangular) 365 mm

Low-Level Tripod Height . . , , .

> Uma feat cod ByDistribution / Availability Codes

Avail and/or Dist Special

